

# VU Research Portal

## Natural Killer cells from Umbilical Cord blood stem cells

Veluchamy, J.P.

2018

### **document version**

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

### **citation for published version (APA)**

Veluchamy, J. P. (2018). *Natural Killer cells from Umbilical Cord blood stem cells: A novel immunotherapy platform for solid tumors*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

### **E-mail address:**

[vuresearchportal.ub@vu.nl](mailto:vuresearchportal.ub@vu.nl)

# CONTENTS

<b>Chapter 1: General introduction and Scope of this Thesis</b>	<b>7</b>
Adapted in part from “The rise of allogeneic Natural Killer cells as a platform for cancer immunotherapy: Recent innovations and future developments” <i>Frontiers in Immunology, 2017</i>	
<b>Chapter 2: Standardized and flexible eight colour flow cytometry panels harmonized between different laboratories to study human NK cell phenotype and function</b>	<b>35</b>
<i>Scientific Reports, 2017</i>	
<b>Chapter 3: High-efficiency lysis of cervical cancer by allogeneic NK cells derived from umbilical cord progenitors is independent of HLA status</b>	<b>73</b>
<i>Cancer Immunology and Immunotherapy, 2017</i>	
<b>Chapter 4: Combination of NK cells and cetuximab to enhance anti-tumor responses in RAS mutant metastatic colorectal cancer</b>	<b>95</b>
<i>PLOS ONE, 2016</i>	
<b>Chapter 5: In vivo efficacy of umbilical cord blood stem cell-derived NK Cells in the treatment of metastatic colorectal cancer</b>	<b>119</b>
<i>Frontiers in Immunology, 2017</i>	
<b>Chapter 6: General discussion and Future Prospects</b>	<b>143</b>
Adapted in part from “The rise of allogeneic Natural Killer cells as a platform for cancer immunotherapy: Recent innovations and future developments” <i>Frontiers in Immunology, 2017</i>	
<b>Chapter 7: Summary</b>	<b>163</b>
<b>Nederlandse samenvatting</b>	<b>166</b>
<b>Curriculum vitae</b>	<b>169</b>
<b>List of publications</b>	<b>170</b>
<b>Acknowledgements</b>	<b>172</b>